

WHAT IS CLAIMED IS:

1. A web cut-off assembly for a rewinder apparatus, comprising:
 - a bedroll disposed such that web material from a parent roll passes around a circumferential portion of said bedroll;
 - a pair of bedroll blades retractably mounted on said bedroll, said bedroll
 - 5 blades moveable from a retracted position to a protracted position radially beyond said bedroll to engage the web material for a web cutting event;
 - a chopper roll disposed proximate to said bedroll, said chopper roll comprising a first blade and a second blade extending from a circumference thereof, said first and second blades rotationally intermeshing with said bedroll
 - 10 blades in said web cutting event;
 - said first blade extending tangentially and radially from said chopper roll;
 - and
 - said second blade having a blade tip segment extending tangentially and radially from said chopper roll and resiliently mounted to said chopper roll.
2. The web cut-off assembly as in claim 1, wherein said blade tip segment of said second blade extends in a non-parallel plane with respect to a plane in which first chopper roll blade extends.
3. The web cut-off assembly as in claim 2, wherein said blade tip segment of said second blade is angled towards said plane of said first chopper roll blade.

4. The web cut-off assembly as in claim 3, wherein said plane of said blade tip segment crosses said plane of said first chopper roll blade at an angle of between about 18 degrees to about 28 degrees.

5. The web cut-off assembly as in claim 1, wherein said first and second blades comprise blade tips spaced apart a distance greater than a distance between said bedroll blades.

6. The web cut-off assembly as in claim 1, wherein said second blade comprises a second segment angled with respect to said blade tip segment which is spaced from and generally tangential to said chopper roll.

7. The web cut-off assembly as in claim 6, comprising an angle greater than about 90 degrees between said second segment and said blade tip segment.

8. The web cut-off assembly as in claim 1, wherein said second blade comprises a third segment angled from said second segment in a direction opposite to said blade tip segment.

9. The web cut-off assembly as in claim 8, comprising an angle greater than about 90 degrees between said third segment and said second segment.

10. The web cut-off assembly as in claim 9 wherein said third segment is generally parallel to said chopper roll first blade.

11. The web cut-off assembly as in claim 10, wherein said third segment is mounted against said first blade.

12. The web cut-off assembly as in claim 11, wherein said third segment is mounted between said first blade and said chopper roll.

13. The web cut-off assembly as in claim 1, wherein said bedroll blades extend radially from said bedroll.

14. A web cut-off assembly for a rewinder apparatus, comprising:
a bedroll disposed such that web material from a parent roll passes around a circumferential portion of said bedroll;

a pair of bedroll blades moveably mounted on said bedroll, said bedroll blades moveable from a recessed position radially within said bedroll to a protracted position radially beyond said bedroll to engage the web material for a web cutting event;

a chopper roll disposed proximate to said bedroll, said chopper roll comprising a first blade and a second blade extending from a circumference thereof, said first and second blades spaced so as to rotationally intermesh with said bedroll blades in said web cutting event;

said first blade being a cutting blade and non-movably fixed to said chopper roll; and

said second blade resiliently mounted to said chopper roll.

15. The web cut-off assembly as in claim 14, wherein said first blade extends tangentially and radially from said chopper roll, and said second blade extends tangentially and radially from said chopper roll in a non-parallel relationship to said first blade.

16. The web cut-off assembly as in claim 15, wherein said second blade is angled towards a plane of said first blade and has a length so as to engage and stretch the web material across said bedroll blades prior to said first blade entering between said bedroll blades and severing the web material.

17. The web cut-off assembly as in claim 16, wherein a distance between tips of said first blade and said second blade is greater than a distance between said bedroll blades.

18. A web cut-off assembly for a rewinder apparatus, comprising:

a bedroll disposed such that web material from a parent roll passes around a circumferential portion of said bedroll;

a pair of bedroll blades moveably mounted on said bedroll, said bedroll blades moveable from a recessed position radially within said bedroll to a protracted position radially beyond said bedroll to engage the web material for a web cutting event;

a chopper roll disposed proximate to said bedroll, said chopper roll comprising a first blade and a second blade extending from a circumference thereof, said first and second blades rotationally intermeshing with said bedroll blades in said web cutting event;

said first blade extending tangentially and radially from said chopper roll; and

said second blade having a blade tip segment extending tangentially and radially from said chopper roll in a non-parallel relationship with said first blade

and having a length so as to engage and stretch the web material across said bedroll blades prior to said first blade entering between said bedroll blades to sever the web material.

19. The web cut-off assembly as in claim 18, wherein said blade tip segment is angled towards a plane of said first blade.

20. The web cut-off assembly as in claim 18, wherein said first blade and said blade tip segment of said second blade comprise tips spaced apart a distance greater than a distance between said bedroll blades.

21. The web cut-off assembly as in claim 18, wherein said second blade further comprises a middle segment angled from said blade tip segment and extending generally transversely to said chopper roll.

22. The web cut-off assembly as in claim 21, wherein said second blade further comprises a base segment mounted to said chopper roll against said first blade.

23. A web cut-off assembly for a rewinder apparatus, comprising:
a bedroll disposed such that web material from a parent roll passes around a circumferential portion of said bedroll;

a pair of bedroll blades moveably mounted on said bedroll, said bedroll blades moveable from a recessed position radially within said bedroll to a protracted position radially beyond said bedroll to engage the web material for a web cutting event;

a chopper roll disposed proximate to said bedroll, said chopper roll

comprising a first blade and a second blade extending from a circumference

10 thereof, said first and second blades rotationally intermeshing with said bedroll blades in said web cutting event;

said first blade extending at an angle greater than normal with respect to said chopper roll; and

said second blade having a blade tip segment extending at an angle
15 greater than normal with respect to said chopper roll but not parallel with said first blade, said second blade also having a middle segment angled from said blade tip segment and providing said second blade with a degree of resiliency, and said second blade further comprising a base segment mounted to said chopper roll against said first blade.